

Application of: Chris Hahn et al.
Serial No.: 10/801,572
Filed: March 17, 2004
Reply to Office Action of October 4, 2006

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 5, line 13, with the following rewritten paragraph:

Once in the servers, the data are post-processed (or "normalized" into a standard format) and passed to other servers and clients via an Application Program Interface (API). In addition to data retrieval through the API, data can be collected using other communications mechanisms and protocols (e.g., OLE, DDE, ~~ActiveX~~ ACTIVEX objects, Webula, and XML).

Please replace the paragraph beginning at page 5, line 26, with the following rewritten paragraph:

Delivery of snapshot information from priority servers to a data client (e.g., on the Web) occurs via dynamically generated content (e.g., active server pages (ASP)) as the client requests data. In a Web page embodiment, the priority servers can further format the normalized data using scripting languages (e.g., ~~JavaScript or VB Script~~ JAVASCRIPT OR VB SCRIPT programming languages). Such data can be included in frames, tables, and all other standard browser structures. Using HTML codes, data can be displayed multiple colors and fonts. Snapshots work well with browsers (e.g., ~~Netseape and Internet Explorer~~ the NETSCAPE browser and the INTERNET EXPLORER browser).

Please replace the paragraph beginning at page 6, line 1, with the following rewritten paragraph:

Streaming delivery is sometimes called event driven delivery. Simply, it means that any change in any data seen by a priority server is streamed ("pushed") to all appropriate users on their displays (e.g., browsers). Where the updated information is displayed on the native web page is based on the location as authored in the dynamic display (e.g., web page). However, by incorporating ~~ActiveX~~ ACTIVEX controls in a visual display, the data can be visually updated on a portion of the client display without having to re-request the page in its entirety. Such

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changes can be displayed in changing colors to accentuate the changes. Moreover, for multi-field displays, it is preferable to allow customization of the order of those fields. For example, the order and/or presence of fields related to the contracts (e.g., Last, Open, High, Low) are individually selectable.

Please replace the paragraph beginning at page 6, line 20, with the following rewritten paragraph:

Event driven data delivery in a Web browser is complicated by the lack of browser standardization. Currently ~~Internet Explorer~~ the INTERNET EXPLORER web browser handles event driven data far better than ~~Netseape~~ the NETSCAPE web browser. Accordingly, an ~~ActiveX~~ ACTIVEX control is used as a "least common denominator" that is small and installed quickly. Future browser improvements will allow similar functionality on ~~Netseape~~ the NETSCAPE web browser and other browsers using plugins, applets, corn objects, and other controls.

Please replace the paragraph beginning at page 6, line 25, with the following rewritten paragraph:

To obtain permission to log into the ~~Digital Integrator~~ DIGITAL INTEGRATOR servers a user must complete an enrollment process by filling out online forms. During this process the user's personal information such as name, address, e-mail and credit card is obtained though a proprietary system created by ~~Digital Integrator~~ DIGITAL INTEGRATOR. Also selectable in this process are the services to which the users wish to subscribe (specific news services, specific quote feeds, etc.). After the user's data is captured the user will be able to select a unique user name and password combination that allows access to precisely the information to which the user subscribed. (Preferably users receive their unique user names from a series of web pages that collect customer billing and demographic information.) The permissioning can be extremely precise, allowing access to the smallest subset of a feed or it can be very broad, allowing the

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grouping of many feeds. This is an in-house e-commerce system developed by ~~Digital Integrator~~ DIGITAL INTEGRATOR for use with the middleware.

Please replace the paragraph beginning at page 9, line 26, with the following rewritten paragraph:

Figure 7 illustrates an exemplary interface according to a first aspect of the invention. The interface (taken from the program entitled "~~PC Trader~~" PC TRADER owned by the assignee of this application) is a product that delivers real-time financial data across a wide area network (e.g., the Internet or any TCP/IP network) from a middleware (e.g., the middleware layer known as the "~~Digital Integrator~~" DIGITAL INTEGRATOR middleware later. Such a visual interface may be written in any programming language (e.g., C++, ~~Visual Basic, FoxPro, and Java~~ the VISUAL BASIC programming language, the FOXPRO programming language and the JAVA programming language), but the illustrated version is written in C++. The data may further be communicated using a protocol other than TCP/IP (e.g., the PCT/IP protocol discussed above). Such an interface may be configured to run on a workstation, a stand-alone computer, or any other computer system. According to the present invention, the operating system is a matter of design choice, and equivalent systems can be run in top of ~~Windows~~ WINDOWS 95/98/NT/2000/ME operating systems, Unix, Linux, UNIX operating system, LINUX operating system, etc.

Please replace the paragraph beginning at page 11, line 23, with the following rewritten paragraph:

Figure 15 illustrates a Web page that groups the data window-like display objects using frames instead of layers. However, as would be understood by one of ordinary skill in the art, other types of display objects (windows) are possible. For example, instead of using window-like objects that are layers as shown in Figure 13 or frames as shown in Figure 15, multiple "child" browser windows (essentially stripped down versions of ~~Internet Explorer or Netscape~~ the

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INTERNET EXPLORER web browser or the NETSCAPE web browser) can be managed by a single "parent" browser page. These child windows can be created and edited by the end user to contain any type of custom display that is important to that user. As with all types of customized display objects, the size and configuration of all of the child windows can be stored in a cookie or configuration database. After the data is stored, the user's customized settings will automatically appear on the screen the next time the user goes to that page.